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INTELLECTUAL PROPERTY LAW AND RELATED MATTERS

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July 15, 2005

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: Serial No.: 10/717,814  
Downhole Seal Element Formed From a Nanocomposite Material  
Our File: 1301-1161

Dear Sir:

Enclosed for filing please find the following items relating to the above-identified application:

- (1) Supplemental Information Disclosure Statement;
- (2) Form PTO/SB/08A (with references);
- (3) Form PTO/SB/08B (with references); and
- (4) Postcard.

Please file the above and return the date-stamped postcard to our office at the address listed above. In the meantime, if you have any questions or comments concerning this matter, please call the undersigned at your earliest convenience. Otherwise, please accept the enclosed.

Sincerely,

Lawrence R. Youst  
Reg. No. 38,795

Enclosures

Date of Deposit: July 15, 2005  
CERTIFICATE OF MAILING BY FIRST CLASS MAIL:  
I hereby certify that this correspondence is being deposited with the United States  
Postal Service as First Class Mail in an envelope addressed to: Commissioner for  
Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Lawrence R. Youst



Attorney Docket No.: 1301-1161  
Halliburton Docket No.: 2003-IP-012730 U1 USA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application: Jeremy Buc Slay et al.

Serial No. 10/717,814

Filed: November 20, 2003

Art Unit: 3676

Examiner: Unassigned

For: Downhole Seal Element Formed From a Nanocomposite Material

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

As listed on the accompanying Form PTO/SB/08A and PTO/SB/08B, submitted herewith are copies of the indicated references which applicant believes may be material to the examination of the above-identified application, and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made, an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. Further, the filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Written notification that the enclosed references have been considered in their entirety by return of a copy of the enclosed form, completed by the Examiner, is respectfully requested.

IDENTIFICATION OF TIME OF FILING THE  
INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is being filed within three months of the filing date of the national application other than a continued prosecution application under §1.53(d) or within three months of the date of entry of the national stage as set forth in §1.491 in an international application or before the mailing date of a first Office Action on the merits or before the mailing of a first Office Action after the filing of a request for continued examination under §1.114. (37 CFR §1.97(b)).

This Information Disclosure Statement is being filed after the period specified in 37 CFR §1.97(b) but before the mailing date of a final action under §1.113 or a notice of allowance under §1.311 or an action that otherwise closes the prosecution in the application. (37 CFR §1.97(c)).

FEE PAYMENT

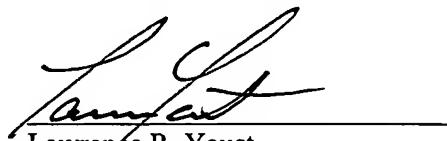
attached is a form PTO-2038 authorizing payment in the amount of \$180.00

charge Deposit Account No. 03-1130 \$180.00

Applicant believes no additional fees are due for the filing of this IDS. However, if any additional fees are due, or any overpayments have been made, please charge, or credit, Deposit Account No. 03-1130.

Dated this 15th day of July, 2005.

Respectfully Submitted,



\_\_\_\_\_  
Lawrence R. Youst  
Attorney for Applicant and Assignee  
Registration No.: 38,795

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**Substitute for form 1449/PTO**

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

**(Use as many sheets as necessary)**

Street 1 of 2

**Complete if Known**

|                        |                        |
|------------------------|------------------------|
| Application Number     | 10/717,814             |
| Filing Date            | November 20, 2003      |
| First Named Inventor   | Jeremy Buc Slay et al. |
| Art Unit               | 3676                   |
| Examiner Name          | Unassigned             |
| Attorney Docket Number | 1301-1161              |

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |   |                |
|                    |                       | WO 98/10012   | 03-12-1998                     | Raychem Corporation                                |   |                |
|                    |                       | JA 11-293089  | 10-26-1999                     | Sumitomo Bakelite                                  |   |                |
|                    |                       | CN 1289812  | 04-04-2001                     | Li Shirong   |   |                |
|                    |                       | JA 2001-158849  | 06-12-2001                     | Kuraray Co Ltd                                     |   |                |
|                    |                       | WO 03/072646  | 09-04-2003                     | Siemens Aktiengesell                               |   |                |
|                    |                       | JA 2004-075707  | 03-11-2004                     | Sekisui Chem Co Ltd                                |   |                |

| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|
|--------------------|--|-----------------|--|

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 2

of 2

**Complete if Known**

|                        |                        |
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| Application Number     | 10/717,814             |
| Filing Date            | November 20, 2003      |
| First Named Inventor   | Jeremy Buc Slay et al. |
| Art Unit               | 3676                   |
| Examiner Name          | Unassigned             |
| Attorney Docket Number | 1301-1161              |

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|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
|                    |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                                |  |   |                |
|                    |                       | JA 2004-132486  | 04-03-2004                     | NSK Ltd  |   |                |
|                    |                       | JA 2004-148634  | 05-27-2004                     | Toppan Printing Co Ltd                             |   |                |
|                    |                       |   |                                |  |   |                |
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| Examiner<br>Signature |  | Date<br>Considered |  |
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet 1 of 1

|                        |                        |
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| Application Number     | 10/717,814             |
| Filing Date            | November 20, 2003      |
| First Named Inventor   | Jeremy Buc Slay et al. |
| Art Unit               | 3676                   |
| Examiner Name          | Unassigned             |
| Attorney Docket Number | 1301-1161              |

## OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
|                    |                       | European Patent Office; European Search Report; February 23, 2005; 3 pages.   |                |
|                    |                       | MACFARLANE; "How seawater, temperature, pressure degrade polymeric materials"; Materials Science/Engineering; Offshore - www.offshore-mag.com; December 2000; 2 pages.  |                |
|                    |                       | SANVITO, G.; "Peroxide Vulcanised Perfluoroelastomers"; Macplas; 27; No. 235; ISSN: 0394-3453; January/February 2002; Pages 108-110.  |                |
|                    |                       | "Oilfield Engineering with Polymers Conference"; 4th MERL Conference, London, UK; Rapra Technology Ltd & MERL Limited; November 3-4 2003; Pages 248-258.  |                |
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